



Heigh Ho Silver

We decided to test the ability of Ionic Colloidal Silver to kill pathogens in water. We also wanted to know the keeping quality of homemade Ionic Colloidal Silver—can it be stored for weeks and months and still be effective? Here are the results of three different tests each using three samples:

Our Mad Scientist's Tests

TEST 1:

Randy, our mad scientist, sent three 2 oz samples of water from the toilet to the lab. Both batches of Ionic Colloidal Silver had been made with the bring-to-the-boil or heat method.

Results:

Sample 1: Untreated. Measured a contamination level of 2400 Colony Forming Units per mL of bacteria (CFU).

Sample 2: One Tbsp. of Ionic Colloidal Silver added that had been stored for 7 months and measured 5 PPM in strength. The lab found no detectable CFU. The toilet water had been sanitized.

Sample 3: One Tbsp of Ionic Colloidal Silver added—that had been stored for two weeks and measured 5 PPM in strength. Again, no detectable CFU. The toilet water had been sanitized.

TEST 2:

Next we asked Randy to test the effectiveness of 3 Tbsp. of Ionic Colloidal Silver added to one gallon of water. This is the amount often recommended to purify water for drinking. The equivalent was to add 1/8 tsp of colloidal silver to a 2 ounce vial of water. Again 3 samples were sent to the lab.

Results:

Sample 1: Untreated. Measured a contamination level of 420 Colony Forming Units per mL of bacteria (CFU)—still a high degree of contamination.

Sample 2: Ionic Colloidal Silver added that had been stored for 7 months and measured 5 PPM in strength. The lab found no detectable CFU. The toilet water had been sanitized.



Sample 3: Ionic Colloidal Silver added that was freshly made and measured 4.3 PPM in strength. Again, no detectable CFU. The toilet water was sanitized!

Conclusion:

The Ionic Colloidal Silver stored for 7 seven months proved to be effective in both tests—the heat method* produces an Ionic Colloidal Silver that keeps its effectiveness.

Note: Ionic Colloidal Silver made by Constant Current was not tested as we did not use this method in 1998 when the testing was done.

TEST 3:

Randy then tested Colloidal Silver made three different ways:

1. By the boiling continuously while making the Ionic/Colloidal Silver method;
2. By the bring-to-the-boil and then remove from heat method;
3. By adding a drop of salt solution at room temperature method.

The toilet water used was highly contaminated containing a whopping 140,000 Colony Forming Units (CFU). He used only 8 drops (1/16 tsp.) of each per 2 oz of water—only 1/2 the amount recommended for water sanitation.

METHOD USED	STORAGE TIME	RESULTS
Untreated		140,000 CFU
Continuously boiled	10 months	No CFU detectable
Bring-to-the-boil	4 months	39 CFU
Room temp with salt	5 weeks	400 CFU

Conclusion:

Using toilet water indicates home-made Ionic Colloidal Silver—especially using the heat method—is effective in killing a high level of bacterial contamination from water.



Customer Experiments

1. Thank you Bruce for the toilet water testing idea. Bruce had the Dept. of Health in Ontario test his toilet water before and after adding ¼ tsp of Colloidal Silver—made by the bring-to-the-boil method—to 6 ounces of water. Before, the water tested “overgrown” with bacteria. After, the water had no significant evidence of bacterial contamination.
2. Tom recommends buying distilled water from out-of-state as it has to pass the more stringent Federal standards for purity—at least this is true in New York. He found the brands that had passed the Federal standards made more effective Ionic Colloidal Silver.

Tom made 9 batches—5 from water that passed the Federal standards and 4 from local brands—using the hot water method. All had a yellow color. He then tested each batch using bacterial cultures. The 5 made with the more pure water stopped bacterial action faster than the others. Eight of the batches stopped all visible action within 15 minutes. The one batch that didn't was a dark copper color indicating a larger particle size—it took almost an hour to stop the bacterial action.

To make bacterial cultures Tom mixed 1 tsp. of a septic system booster in a glass of warm water with a little honey. He says it will fizz and foam for days.